

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)

2. (Currently Amended) A node of a communications network which dynamically establishes one or more access bearers to a stationary equipment unit which is connected to the node by an essentially fixed location physical link which has the stationary equipment unit as a first of its endpoints, differing ones of the multiple access bearers being configured for utilization by differing types of media services, the node being configured so that the differing types of the media services a media service offered by one or more external networks can be concurrently provided through the node and on the same physical link to the stationary equipment.

3. (Original) The apparatus of claim 2, wherein the one or more access bearers carry connections for plural services of its associated type of media service.

4. (Currently Amended) A node of a communications network which dynamically establishes plural access bearers to a stationary equipment unit which is connected to the node by an essentially fixed location physical link which has the stationary equipment unit as a first of its endpoints, the access bearers providing different types of services to the stationary equipment unit, the different types of services including one of voice services, video services, and data traffic services, the node being configured so that a service offered by one or more external networks can be concurrently provided through the node and on the same physical link to the stationary equipment.

5. (Cancelled)

6. (Cancelled)

7. (Currently Amended) The apparatus of claim ~~62~~, 4, or 37, wherein the multiple access bearers do not necessarily have a same bandwidth and a same quality of service capabilities.

8. (Currently Amended) The apparatus of claim 6 or 37, wherein the multiple access bearers do not have a same bandwidth and a same quality of service capabilities.

9. (Currently Amended) The apparatus of claim 6 or 37, wherein the multiple ~~simultaneous~~concurrent access bearers include both circuit switched access bearers and packet switched access bearers.

10. (Currently Amended) The apparatus of claims ~~4, 2~~ or 37, ~~or 5~~, wherein the node establishes access bearers for providing different types of services to the stationary equipment unit, the different types of services including one of voice services, video services, and data traffic services.

11. (Currently Amended) The apparatus of claims ~~4, 2~~, 4, or 37, wherein the essentially fixed location physical link is one of the following: (1) a wire line link; (2) an optical link; (3) a radio link of a radio access network which does not involve mobility management.

12. (Currently Amended) The apparatus of claim ~~5~~ 37, wherein the packets of the transport protocol are one of Internet Transport Protocol (IP) packets and Asynchronous Transfer Mode (ATM) packets.

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) A method of operating a communications network comprising:

connecting a stationary equipment unit to an access interface node by an essentially fixed location physical link, an end of the fixed location physical link being connected to the stationary equipment unit;

dynamically establishing one or more access bearers for concurrently providing differing types of services offered by one or more external networks through the node and on the one or more access bearers to the stationary equipment unit on the same essentially fixed location physical link, differing ones of the multiple access bearers being configured for utilization by the differing types of media services;

mapping the access bearers into packets of a transport protocol of the essentially fixed location physical link.

16. (Original) The method of claim 15, further comprising carrying, on at least one of the multiple access bearers, connections for plural services of its associated type of media service.

17. (Currently Amended) A method of operating a communications network comprising:

connecting a Third Generation Partnership Project (3GPP)-compatible stationary equipment unit to an access interface node by an essentially fixed location physical link, an end of the fixed location physical link being connected to the stationary equipment unit;

dynamically establishing plural access bearers for concurrently providing differing types of services offered by one or more external networks through the node and on the one or more access bearers to the stationary equipment unit on the same essentially fixed location physical link, the access bearers providing the different types of services to the stationary equipment unit, the different types of services including one of voice services, video services, and data traffic services

mapping the plural access bearers into packets of a transport protocol of the essentially fixed location physical link.

18. (Currently Amended) The method of claims ~~14, 15,~~ or 17, further comprising establishing multiple ~~simultaneous~~concurrent access bearers to the stationary equipment unit.

19. (Currently Amended) The method of claim 18, further comprising configuring the multiple ~~simultaneous~~concurrent access bearers to have different bandwidths and different quality of service capabilities.

20. (Currently Amended) The method of claim 18, wherein the multiple ~~simultaneous~~concurrent access bearers include both circuit switched access bearers and packet switched access bearers.

21. (Currently Amended) The method of claim ~~14 or 15,~~ further comprising establishing access bearers for providing different types of services to the stationary equipment unit, the different types of services including one of a voice service, a video service, and a data traffic service.

22. (Currently Amended) The method of claim ~~14, 15,~~ or 17, wherein the essentially fixed location physical link is one of the following: (1) a wire line link; (2) an optical link; (3) a radio link of a radio access network which does not involve mobility management.

23. (Currently Amended) The method of claim ~~14, 15,~~ or 17, further comprising using as the packets of the transport protocol one of Internet Transport Protocol (IP) packets and Asynchronous Transfer Mode (ATM) packets.

24. (Currently Amended) A Third Generation Partnership Project (3GPP)-compatible stationary equipment unit comprising:

means for forming a physical connection to a network by a non-radio fixed position physical link;

means for executing plural media services offered by one or more external networks through a node of the network;

a protocol stack which, for the plural media services, utilizes dynamically established access bearers which are mapped into packets of a transport protocol of the essentially fixed location physical link.

25. (Original) The apparatus of claim 24, wherein differing ones of multiple access bearers are configured for utilization by differing types of media services.

26. (Original) The apparatus of claim 25, wherein the different types of services including one of voice services, video services, and data traffic services.

27. (Previously Presented) The apparatus of claim 25, wherein the multiple access bearers do not necessarily have a same bandwidth and a same quality of service capabilities.

28. (Currently Amended) The apparatus of claim 25, wherein multiple access bearers are simultaneous concurrent access bearers which include both circuit switched access bearers and packet switched access bearers.

29. (Original) The apparatus of claim 24, wherein the essentially fixed location physical link is one of the following: (1) a wire line link; (2) an optical link; (3) a radio link of a radio access network which does not involve mobility management..

30. (Currently Amended) The apparatus of claim 4024, wherein the packets of the transport protocol are one of Internet Transport Protocol (IP) packets and Asynchronous Transfer Mode (ATM) packets.

31. (Original) The apparatus of claim 24, further comprising means for providing mobile termination across a radio interface.

32. (Original) The apparatus of claim 24, further comprising a USIM card.

33. (Cancelled)

34. (Currently Amended) The apparatus of claim 42, wherein the node is configured to set up a connection on the one or more access bearers carried by the fixed location physical link by using transport channel information in lieu of radio resource information in a message which is a modification of a radio access network protocol message.

35. (Previously Presented) The apparatus of claim 34, wherein the radio access network protocol message is a message that would be sent over a radio interface in a radio access network.

36. (Previously Presented) The apparatus of claim 24, further comprising a protocol stack which, for the plural media services, utilizes dynamically established access bearers which are mapped into packets of a transport protocol of the essentially fixed location physical link.

37. (New) A node of a communications network comprising:

plural interfaces connected to respective plural external networks from which the node obtains differing types of media services and provides the differing types of media services to a stationary equipment unit, the plural interfaces including:

an Iu-CS interface configured for connection toward a circuit switched core mobile network;

an Iu-PS interface configured for connection toward a packet switched core mobile network;

a connection control unit configured to establish multiple concurrent access bearers for providing the stationary equipment unit with types of access bearers and services as are provided to a WCDMA user equipment unit;

a bearer service processing unit configured to map the multiple concurrent access bearers into packets of a transport protocol of a single essentially fixed location physical link, differing ones of the multiple access bearers being configured for utilization by the differing types of the media services; and

a port configured to connect the access network controller node to a first endpoint of the fixed location physical link, a second endpoint of the fixed location physical link being connected to the stationary equipment unit.

38. (New) The apparatus of claim 37, wherein the multiple concurrent access bearers carry connections for plural services of its associated type of media service.

39. (New) The node of claim 37, wherein the node is further configured to communicate with the stationary equipment unit over a UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) dedicated control channel (DCCH) as if the node were communicating over an air interface with the WCDMA user equipment unit, but with the connection control unit using an information element of the

dedicated control channel (DCCH) conventionally used in a UTRAN message for radio resource information for conveying transport channels instead.

40. (New) The node of claim 37, wherein the node is configured to use a modification of UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) radio resource control (RRC) protocol wherein physical parameters related to radio resources have been removed and information elements which relate to a transport layer for the physical link have been added.

41. (New) The node of claim 37, wherein the node is configured to reuse TrCH transport channels information elements of a UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) Connection Control (CC) protocol which otherwise pertain to radio resources for conveying the transport channels.

42. (New) The node of claim 37, wherein the node is radio network controller (RNC) node of a UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) and is configured to use aspects of the UTRAN RLC/MAC and RRC protocols which are common to or borrowed by the CC/MAC (Medium Access Control) and Link Control (CC) protocols of media access network.

43. (New) The node of claim 37, wherein the node is configured to setup the multiple concurrent access bearers using UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) messages in which a traffic descriptor information element has been substituted for a radio resource information element.

44. (New) The node of claim 37, wherein the node is configured to utilize a medium access control (MAC) protocol and a link control (LC) protocol which respectively are modifications of a UTRAN MAC protocol and a UTRAN RLC protocol.

45. (New) The node of claim 37, wherein the node is configured to communicate over the fixed location physical link with the stationary equipment unit being a Third Generation Partnership Project (3GPP) terminal which does not have or does not use its radio part for access to the media services provided through the node.

46. (New) A method of operating a communications network comprising:
connecting a stationary equipment unit to an access interface node by an essentially fixed location physical link;
at the node using a modified UTRAN signaling protocol for dynamically establishing multiple concurrent access bearers for concurrently providing differing types of services offered by one or more external networks through the node and on the multiple concurrent access bearers to the stationary equipment unit on the same essentially fixed location physical link, differing ones of the multiple access bearers being configured for utilization by the differing types of media services, in the modified UTRAN signaling protocol physical parameters related to radio resources have been removed and information elements which relate to a transport layer for the physical link have been added;
mapping the access bearers into packets of a transport protocol of the essentially fixed location physical link.

47. (New) The method of claim 46, further comprising the multiple concurrent access bearers carrying connections for plural services of its associated type of media service.

48. (New) The method of claim 46, further comprising the node communicating with the stationary equipment unit over a UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) dedicated control channel (DCCH) as if the node were communicating over an air interface with the WCDMA user equipment unit.

49. (New) The method of claim 46, further comprising the node reusing TrCH transport channels information elements of a UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) Connection Control (CC) protocol which otherwise pertain to radio resources for conveying the transport channels.

50. (New) The method of claim 46, wherein the node is radio network controller (RNC) node of a UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network), and wherein the method further comprises the node using aspects of the UTRAN RLC/MAC and RRC protocols which are common to or borrowed by the CC/MAC (Medium Access Control) and Link Control (CC) protocols of media access network.

51. (New) The method of claim 46, further comprising the node setting up the multiple concurrent access bearers using UTRAN (Universal Mobile Telecommunications Terrestrial Radio Access Network) messages in which a traffic descriptor information element has been substituted for a radio resource information element.

52. (New) The method of claim 46, further comprising the node using a medium access control (MAC) protocol and a link control (LC) protocol which respectively are modifications of a UTRAN MAC protocol and a UTRAN RLC protocol.

53. (New) The method of claim 46, further comprising the node communicating over the fixed location physical link with the stationary equipment unit being a Third Generation Partnership Project (3GPP) terminal which does not have or does not use its radio part for access to the media services provided through the node.